

Jun 27th, 2:30 PM - 2:50 PM

Session C8: A Comprehensive Approach to Fish Passage: What's Happening in Washington State - A Comprehensive Fish Passage Program: From a Washington State Perspective

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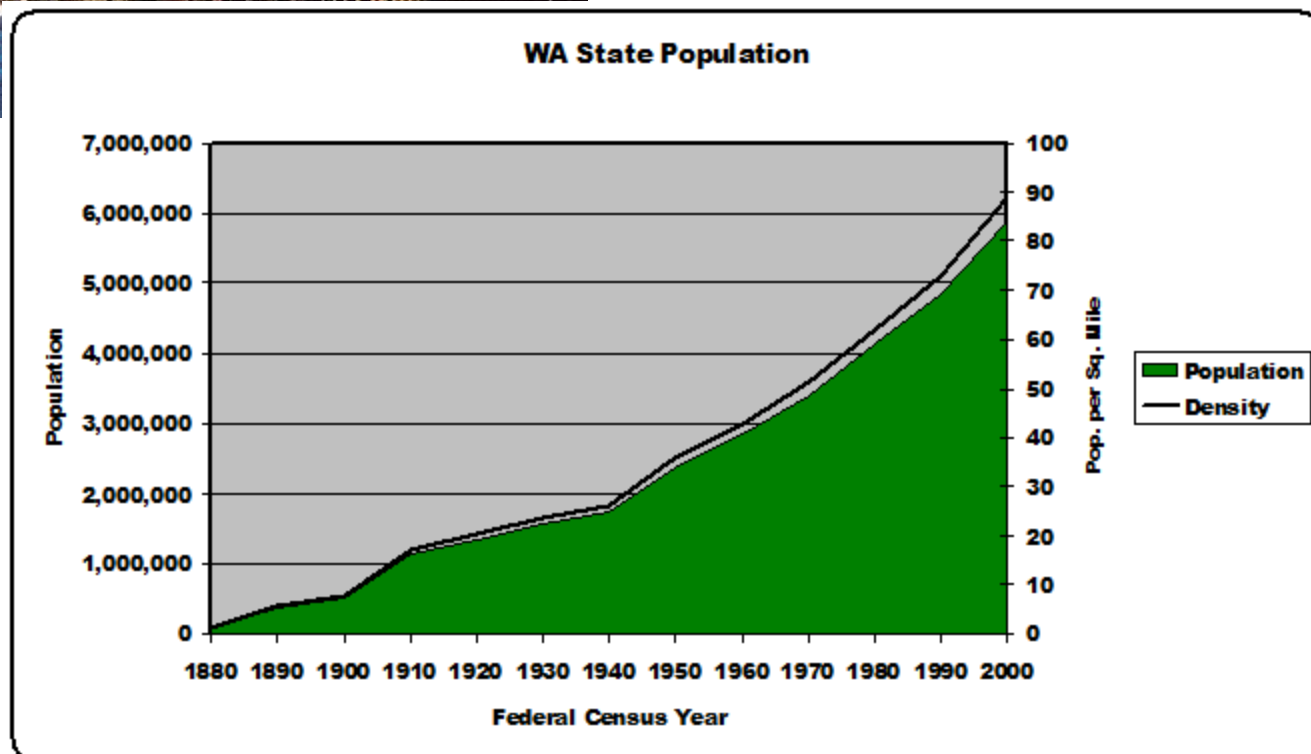
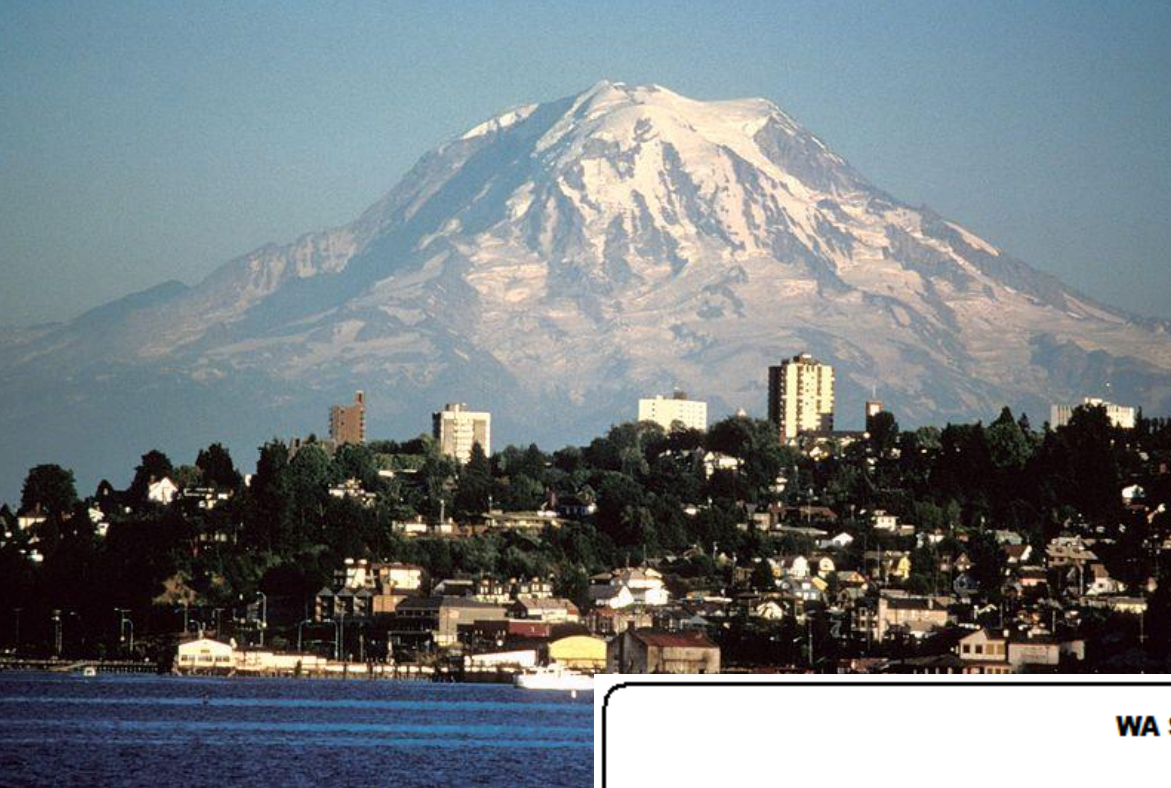
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Fish Passage: What's Happening in Washington State

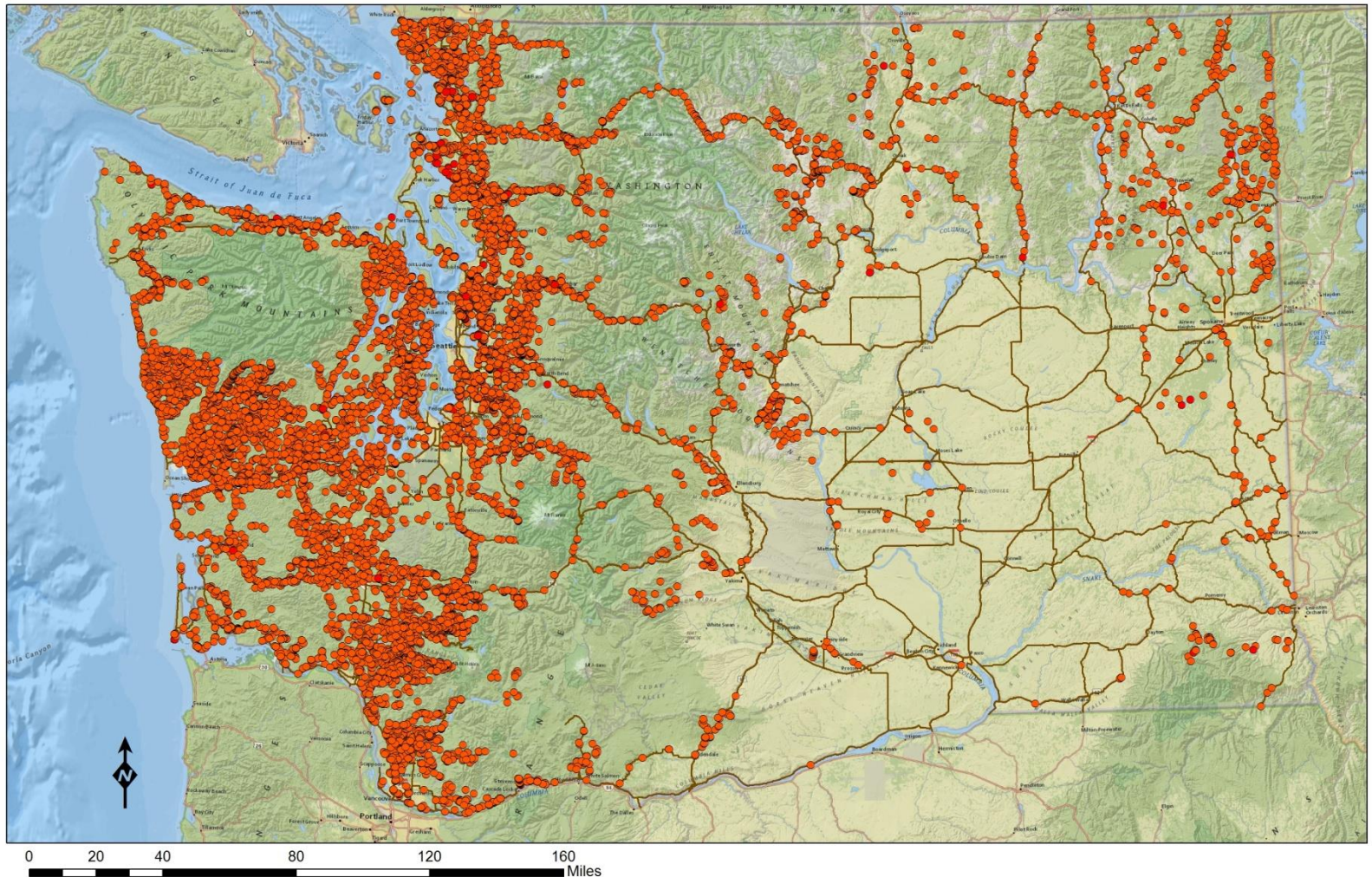


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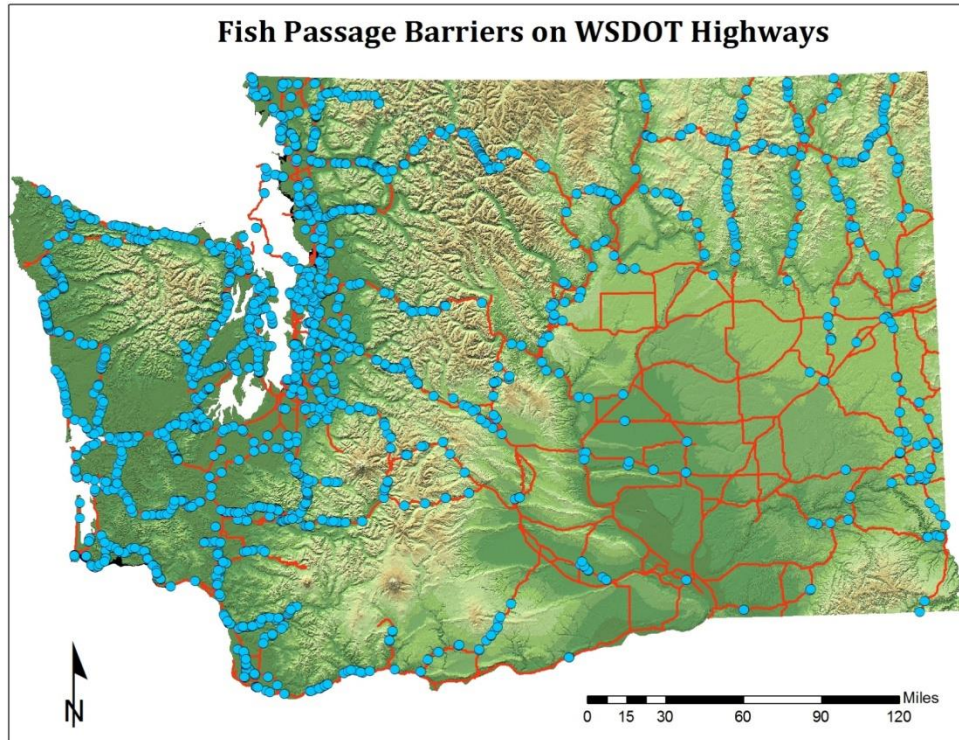


How big is the problem?

13,939 barriers statewide in the Database



Challenges we face



7,000 miles of WSDOT highways containing 3,185 documented fish-bearing stream crossings of which, 1,984 evaluated as barriers

Over 40,000 miles of county roads statewide and unknown # of barriers

Protection and Restoration Approach

- Focused on the restoration approach
 - Design Guidelines
- Hydraulic Permit Approvals
- Forest and Fish Law – State & Private forestland
- Culvert Case Lawsuit

Fish Passage Activities

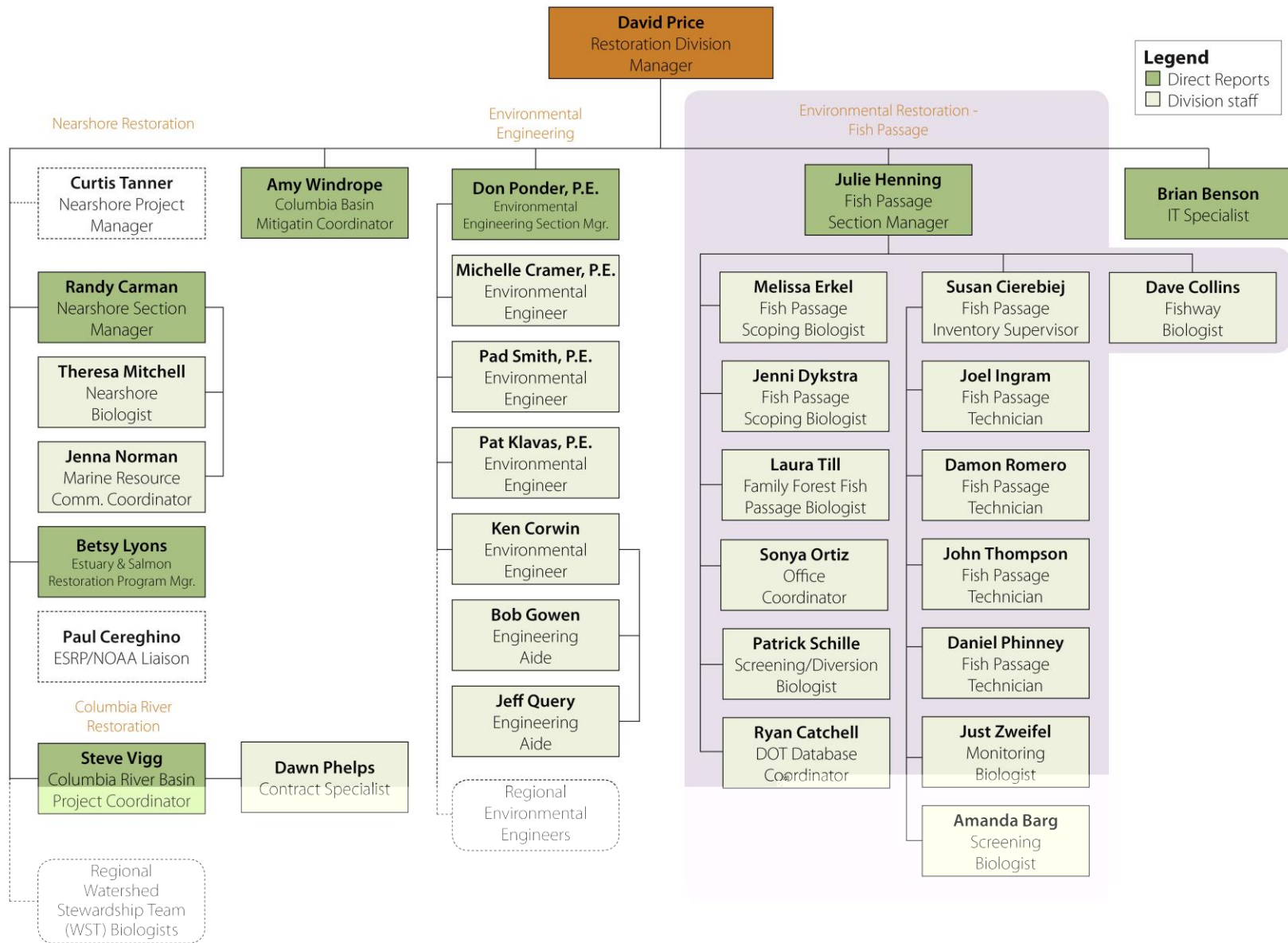
Inventory culverts
and physical
surveys

Barrier
prioritization and
database
management

Scoping reports on
WSDOT and WDFW
lands

Technical assistance
on inventories, and
barrier correction

Fishways and
fish screen
inspections



History

- Mid-1980s fish passage problems were recognized and data was collected.
- 1992 WSDOT Barrier culvert inventory was initiated.
 - Protocols developed and a prioritization process was initiated.
 - A relational database was created linking culvert description with habitat characteristics, species and priority index information.

Fish Passage Program -history

**Fish Passage Barrier and Surface
Water Diversion Screening
Assessment and Prioritization
Manual
2009**



**WASHINGTON DEPARTMENT OF
FISH & WILDLIFE**

HABITAT PROGRAM

Technical Applications (TAPPS) Division

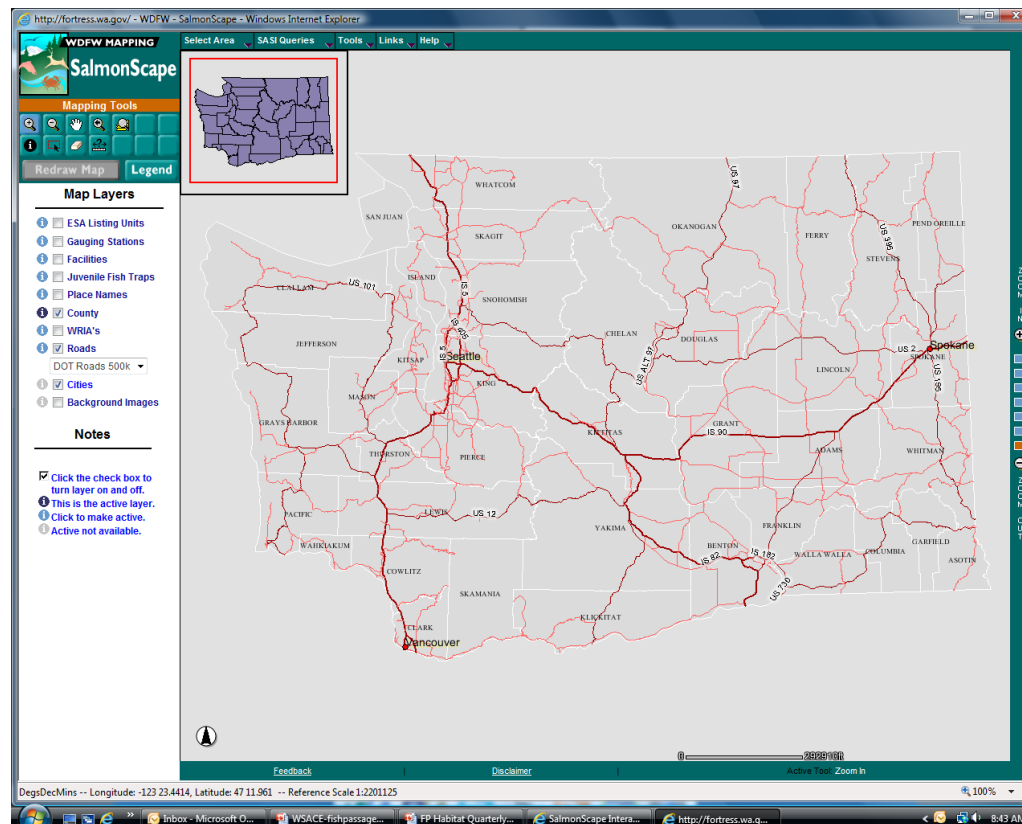


- State standard
- Science based

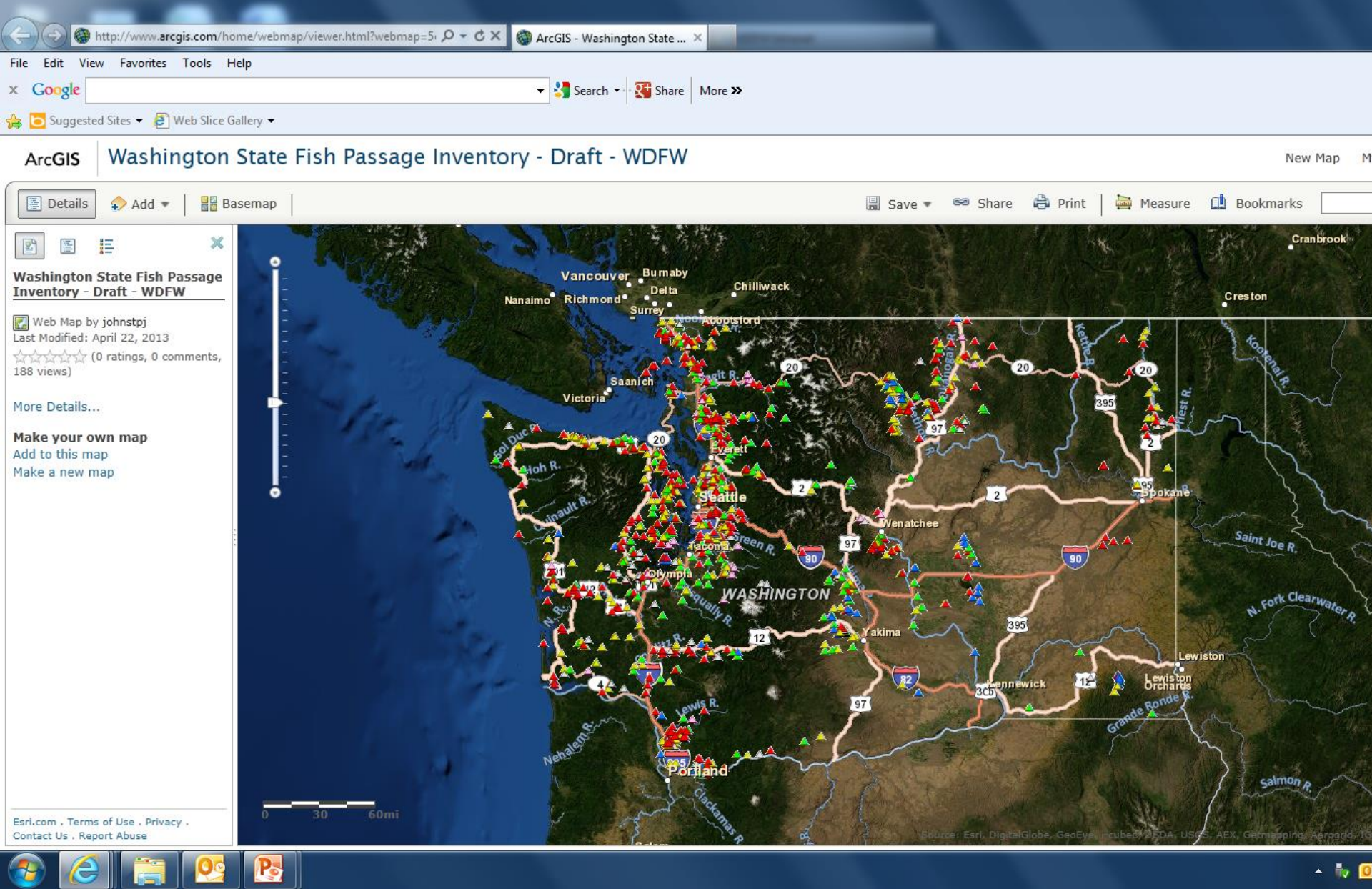
<http://wdfw.wa.gov/publications/pub.php?id=00061>

Fish Passage and Screening database

- Central repository for fish passage inventory data in Washington State
- Over 35,000 records
- Available to the public on Salmonscape and WA State Geospatial portal



New interactive Map



WDFW Intranet

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Data & Maps

WDFW has developed and maintains a centralized database, which stores fish passage, diversion screening, fish use, and other data resulting from inventory efforts conducted throughout Washington State. The Fish Passage and Diversion Screening Inventory can be used to locate, prioritize, select, implement, and monitor fish passage and screening projects.

The map below is man-made barriers that have been inventoried in the State of Washington. Only locations where a fish passage inventory has been conducted are displayed. Also, the data is in tabular form at: <http://geography.wa.gov/Geospatial/Pages/FishPassage.aspx>

Barrier Assessment Manual

Design Guidance & Standards

Data & Maps

Regulations

WDFW Contacts

Partnerships

Other Publications

Fish Screening & Irrigation Diversion Protection

WDFW Lands

For more information on habitat issues, please contact the WDFW Habitat Program.
habitatprogram@dfw.wa.gov
Phone: 360-902-2534

For more information on WDFW managed lands including wildlife areas, please contact the WDFW Wildlife Program.
wildthing@dfw.wa.gov
Phone: 360-902-2515

Details Legend

Wanapum Recreation

Site Number	990993
Latitude WGS84	46.89
Longitude WGS84	-119.95
Road Name	SR 243
Milepost Measurement	25.29
County	Grant
LLID Number	1199723468891
Stream Name	unnamed

[Zoom to](#)

Expertise

- Outside entities look to us for fish passage expertise for assistance with barrier inventories, prioritization, biological technical assistance, and engineering support
- Train salmon recovery partners on protocols
- Contracts with WSDOT, State Parks, Association of Washington Cities, and RCO



WDFW Fish Passage Expertise

- Inventory crews
- Fish Passage Biologists
- Database Manager
- Environmental Engineers
- Habitat Permit Biologists
- Compliance and monitoring program
- Screen Shop

Fish Screening Program



Culvert Case Litigation

- Involves Tribe's right to a 'fair share' of the harvestable salmon in the case area (Boldt decision). The Tribes claim that state owns culverts blocking passage to salmon habitat, reducing harvest opportunity.
- In 2007, Judge Martinez enters an order, the State was in breach of the tribes treaty rights, State owns culverts that are barriers to salmon and reduce harvest available to tribes.
- In 2009, trial began to determine the remedy. Closing arguments June 2010 and March 2013 a permanent injunction was issued.

Culvert Litigation

- o Applies to State owned roads in Western WA.
- o Applies to WSDOT, DNR, WDFW, and State Parks
- o Salmon bearing streams

Culvert Case Area WRIAs 1-23

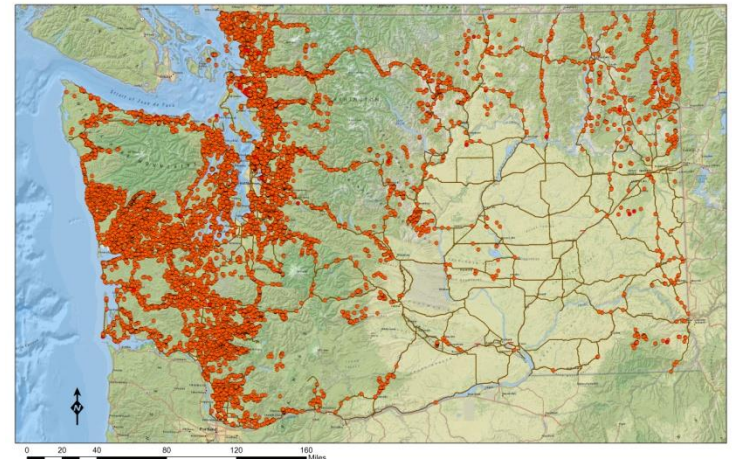


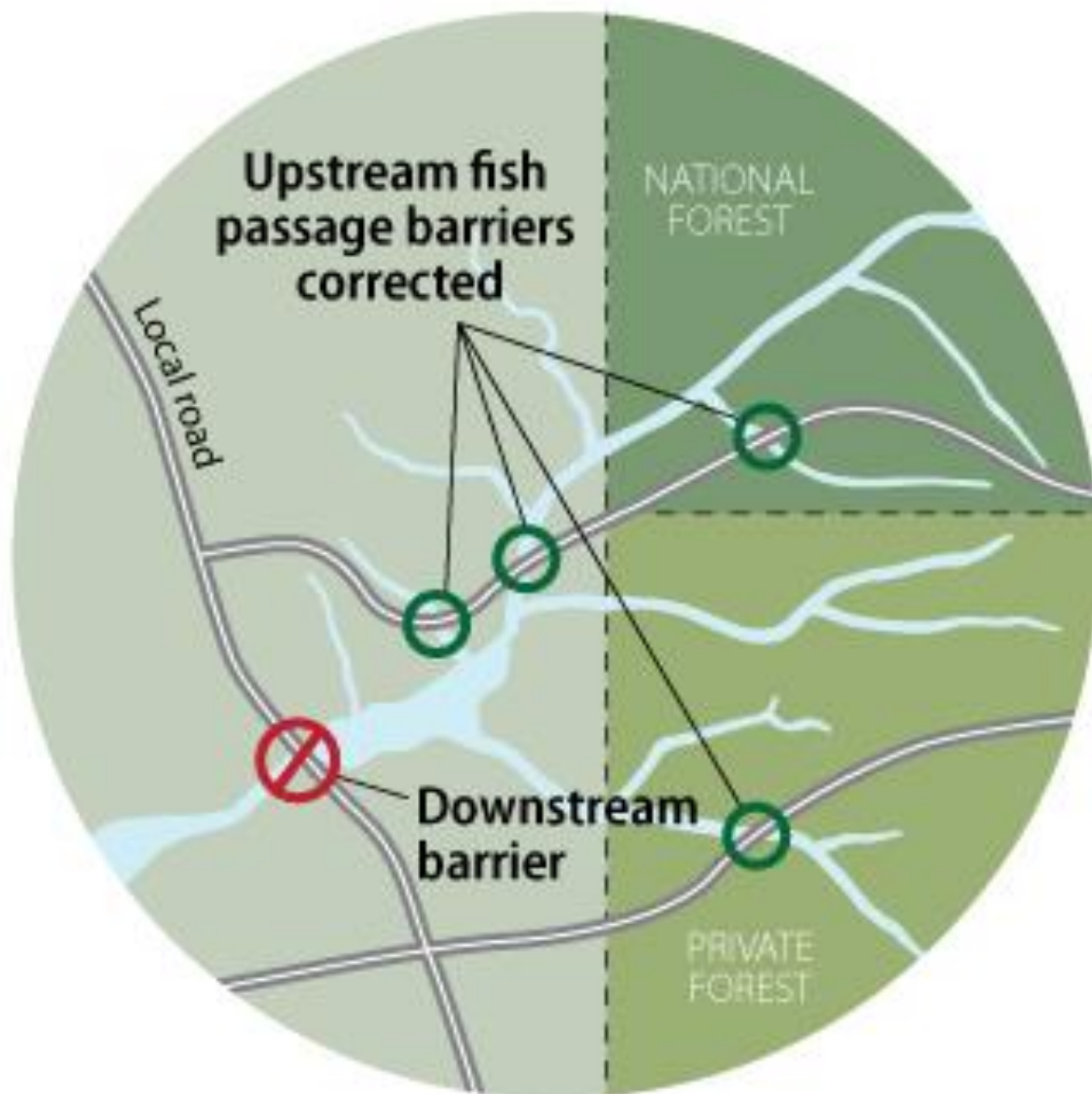
Culvert Litigation

- Deadlines
 - WSDOT must correct barriers >200m of habitat by year 2030
 - WDFW, DNR, Parks must fix all barriers by Oct. 2016
- Correction Standards
- WDFW's role is to lead and assist other agencies with corrections

WA State Fish Passage

- WSDOT
- WDFW/DNR/Parks
- Small Forest landowners
- Private timber industry
- Privately owned
- Counties and cities





Questions?

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Accomplishments

- 2012 -Largest construction season on WDFW lands where 28 fish barriers corrected.
- 80% of culvert case barriers corrected





Investing in fish passage invest in your infrastructure and your community

- Reduces maintenance costs
- Reduces liability
- Increases public safety
- Increases fish habitat





Fish passage is needed to maintain and preserve the State and local road system







Increases recreational opportunities

Bring people into our community and boost the economy.



What are we working on?

- Contracts
 - WSDOT
 - Puget Sound Cities
 - Private landowners
- WDFW lands
- Culvert Case lawsuit





Fish Passage project create **Jobs**
and enhance the **local** economy

For every **\$100,000** invested in fish passage projects, **1.57 local jobs** are created during the construction season.





Fish Passage Activities

Inventory
culverts and
physical surveys

Barrier
prioritization and
database
management

Scoping reports
on WSDOT and
WDFW lands

Technical assistance
on inventories, and
barrier correction

Fishways and
fish screen
inspections

WDFW Accomplishments

- 2012 -Largest construction season on WDFW lands where 28 fish barriers corrected.



Fish Passage Section - Overview

- History
- Activities
- Tools available
- Priorities
- Culvert litigation

